

Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2016, Arizona

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum							Hydro- electric Power ^{f,g} Million Kilowatt- hours	Biomass		Geo- thermal ^g	Solar ^{g,j}	Retail Electricity Sales	Net Energy ^{g,k}	Electrical System Energy Losses ^l	Total ^{g,k}
			Distillate Fuel Oil	HGL ^b	Jet Fuel ^c	Motor Gasoline ^d	Residual Fuel Oil	Other ^e	Total		Wood and Waste ^{g,h}	Losses and Co- products ⁱ			Million Kilowatt- hours			
1960	10	82	2,785	724	4,721	12,363	84	1,901	22,578	0	--	--	--	--	6,138	--	--	--
1970	5	134	4,897	1,304	6,644	21,542	86	4,615	39,088	13	--	--	--	--	13,769	--	--	--
1980	643	116	10,333	1,589	7,967	30,589	154	3,097	53,728	15	--	--	--	--	26,762	--	--	--
1990	660	102	11,170	1,508	8,501	39,326	18	3,335	63,859	0	--	--	--	--	41,470	--	--	--
2000	720	110	19,567	1,660	10,433	56,431	23	4,479	92,594	0	--	--	--	--	61,130	--	--	--
2001	672	112	21,156	1,650	9,914	58,506	27	3,444	94,697	0	--	--	--	--	62,274	--	--	--
2002	627	105	19,828	1,509	10,344	61,230	29	4,395	97,336	0	--	--	--	--	62,601	--	--	--
2003	681	103	20,820	1,823	10,650	61,827	0	4,330	99,450	0	--	--	--	--	64,080	--	--	--
2004	739	109	22,426	1,575	8,256	65,248	33	5,599	103,138	0	--	--	--	--	66,933	--	--	--
2005	720	104	25,853	1,395	8,018	67,483	21	5,454	108,224	0	--	--	--	--	69,391	--	--	--
2006	741	110	26,708	1,567	7,721	69,307	17	4,998	110,317	0	--	--	--	--	73,253	--	--	--
2007	713	113	26,245	1,569	6,612	70,010	22	4,931	109,389	0	--	--	--	--	77,193	--	--	--
2008	628	115	25,946	2,524	6,763	65,760	0	4,309	105,301	0	--	--	--	--	76,268	--	--	--
2009	431	108	23,868	2,057	4,686	63,417	0	3,560	97,588	0	--	--	--	--	73,433	--	--	--
2010	536	106	24,838	2,074	3,687	63,127	0	^R 4,085	^R 97,811	0	--	--	--	--	72,833	--	--	--
2011	503	108	26,044	2,351	3,797	62,068	6	^R 4,161	^R 98,427	0	--	--	--	--	74,944	--	--	--
2012	418	103	25,177	1,706	3,812	61,513	0	^R 3,722	^R 95,931	0	--	--	--	--	75,063	--	--	--
2013	181	109	25,214	1,969	3,697	62,910	0	^R 3,529	^R 97,320	0	--	--	--	--	75,662	--	--	--
2014	221	101	24,680	2,058	3,792	63,340	0	^R 3,617	^R 97,487	0	--	--	--	--	76,298	--	--	--
2015	235	103	24,503	1,966	3,851	^R 66,657	0	^R 3,756	^R 100,734	0	--	--	--	--	77,349	--	--	--
2016	175	103	25,752	2,256	4,394	68,984	0	3,943	105,329	0	--	--	--	--	78,238	--	--	--

Trillion Btu

1960	0.2	85.2	16.2	2.8	25.3	64.9	0.5	11.3	121.2	0.0	3.8	NA	NA	NA	20.9	231.3	51.8	283.1
1970	0.1	142.0	28.5	5.0	36.4	113.2	0.5	29.6	213.2	0.1	4.3	NA	NA	NA	47.0	406.8	113.7	520.4
1980	13.1	121.4	60.2	5.9	43.9	160.7	1.0	19.6	291.4	0.2	17.8	NA	NA	NA	91.3	535.2	219.4	754.6
1990	13.3	105.8	65.1	5.6	47.3	206.6	0.1	21.4	346.1	0.0	13.7	0.0	0.2	3.6	141.5	624.2	314.7	938.9
2000	16.0	110.7	113.9	6.3	59.2	294.2	0.1	28.8	502.5	0.0	11.9	0.0	0.3	3.3	208.6	853.3	458.1	1,311.4
2001	14.7	112.4	123.1	6.3	56.2	305.1	0.2	22.1	512.9	0.0	8.0	0.0	0.3	3.1	212.5	863.9	457.8	1,321.7
2002	14.0	107.2	115.4	5.8	58.6	319.1	0.2	28.4	527.5	0.0	7.8	0.0	0.3	2.9	213.6	873.2	442.4	1,315.6
2003	15.3	104.1	121.2	6.9	60.4	321.7	0.0	28.0	538.0	0.0	8.1	0.0	0.2	2.8	218.6	887.1	447.2	1,334.3
2004	16.2	111.2	130.5	5.9	46.8	339.4	0.2	36.5	559.3	0.0	8.2	0.0	0.3	2.6	228.4	926.2	458.7	1,384.9
2005	16.0	106.5	150.4	5.3	45.5	350.8	0.1	35.5	587.6	0.0	10.7	0.0	0.3	2.4	236.8	960.3	465.7	1,425.9
2006	16.3	112.0	155.0	5.9	43.8	359.8	0.1	32.4	596.9	0.0	9.9	0.0	0.3	2.5	249.9	987.9	483.7	1,471.6
2007	15.3	115.7	151.8	5.9	37.5	360.9	0.1	32.0	588.2	0.0	10.9	1.6	0.3	2.7	263.4	998.0	500.7	1,498.7
2008	12.9	118.4	150.0	9.5	38.3	337.1	0.0	27.8	562.8	0.0	11.9	3.0	0.4	3.0	260.2	972.5	494.1	1,466.7
2009	8.7	109.8	138.0	7.8	26.6	323.5	0.0	23.0	518.8	0.0	4.6	3.0	0.3	3.3	250.6	899.2	481.7	1,380.9
2010	10.8	108.3	143.5	8.0	20.9	320.6	0.0	R 26.3	R 519.2	0.0	R 4.6	3.1	0.3	4.3	248.5	R 899.2	485.0	R 1,384.2
2011	10.0	109.2	150.4	9.0	21.5	314.6	(s)	R 26.7	R 522.3	0.0	R 3.3	3.1	0.3	6.7	255.7	R 910.6	513.7	R 1,424.3
2012	8.7	105.4	145.3	6.5	21.6	311.4	0.0	R 24.0	R 508.9	0.0	3.0	2.2	0.3	8.9	256.1	R 893.4	500.8	R 1,394.2
2013	4.3	111.9	145.5	7.6	21.0	318.5	0.0	R 22.5	R 515.0	0.0	R 3.9	0.0	0.3	R 11.4	258.2	R 905.1	507.0	R 1,412.2
2014	5.2	104.3	142.4	7.9	21.5	320.5	0.0	R 23.0	R 515.2	0.0	R 4.0	2.3	0.3	13.9	260.3	R 905.6	515.2	R 1,420.7
2015	5.4	R 107.5	141.3	7.5	21.8	R 337.3	0.0	R 23.9	R 531.9	0.0	R 3.2	2.7	0.3	16.2	263.9	R 931.1	510.3	R 1,441.4
2016	4.1	107.0	148.5	8.7	24.9	349.0	0.0	25.2	556.3	0.0	2.7	2.6	0.3	18.2	266.9	958.3	512.3	1,470.6

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

^d Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^e Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

^f Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^h Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

ⁱ Losses and co-products from the production of fuel ethanol.

^j Solar thermal and photovoltaic energy. Includes a small amount of wind energy consumed by commercial and industrial utility-scale facilities.

^k Beginning in 2009, includes wind energy consumed by the commercial and industrial sectors. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^l Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.